

<p style="text-align: center;"><b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b></p> <p>(use as many sheets as necessary)</p>				<b>Complete if Known</b>	
				Application Number	09/362,693
				Filing Date	07/29/1999
				First Named Inventor	Mills
				Group Art Unit	1745
				Examiner Name	Kalafut
Sheet	1	of	<u>42</u>	Attorney Docket Number	

<b>U.S. PATENT DOCUMENTS</b>					
Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Number	Kind Code <sup>2</sup> (if known)		
/SK/		3,253,884		Jung, et al.	05-31-1966
		3,462,622		Cann et al.	08-1969
		4,000,036		Ensley	12-1976
		4,095,118		Rathbun	06-1978
		4,149,931		Christensen	04-1979
		4,155,712		Taschek	05-22-1979
		4,202,004		Anderson	05-1980
		4,337,126		Gilligan, III et al.	06-29-1982
		4,353,871		Bartilt, et al.	10-12-1982
		4,464,990		Bendler	08-14-1984
		4,488,490		Betts	12-18-1984
		4,694,755		Ibarra	10-22-1987
		4,702,894		Cornish	10-27-1987
		4,792,725		Levy et al.	12-1988
		4,808,286		Angelo, II	02-28-1989
		4,957,727		Bogdanovic	09-18-1990
		5,273,635		Gernert	12-28-1993
V		5,449,434		Hooke et al.	09-1995
/SK/		5,577,090		Moses	11-1996

Examiner Signature	/Stephen Kalafut/	Date Considered	12/06/2007
--------------------	-------------------	-----------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3) <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English Language Translation is attached.

Substitute for form 1449A/PTO		<b><i>Complete if Known</i></b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>		Application Number	09/362,693
		Filing Date	07/29/1999
		First Named Inventor	Mills
		Group Art Unit	1745
		Examiner Name	Kalafut
Sheet	2	of	<del>42</del> 42 Attorney Docket Number

## U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant . Passages or Relevant Figures Appear
		Number	Kind Code <sup>w</sup> (if known)			
/SK/		5,593,640		Long, et al.	01-14-1997	
		5,669,975		Ashtiani	09-1997	
		5,761,481		Kadoch et al.	06-1998	
		5,789,744		Spence, et al.	08-04-1998	
		5,801,971		Ohta	09-1998	
		5,819,073		Nakamura	10-1998	
		5,838,760		Moses	11-1998	
		5,864,322		Pollon et al.	01-1999	
		5,883,005		Minton et al.	03-1999	
		5,888,414		Collins et al.	03-1999	
		5,969,470		Druz et al.	10-1999	
		6,024,935		Mills, et al.	02-15-2000	
		6,064,154		Crouch et al.	05-2000	
		6,149,829		Takamatsu et al.	11-2000	
▼		6,150,755		Druz et al.	11-2000	
/SK/		6,151,532		Barone et al.	11-2000	

<b>Examiner Signature</b>	/Stephen Kalafut/	<b>Date Considered</b>	12/06/2007
-------------------------------	-------------------	----------------------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3) <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449A/PTO		<b><i>Complete if Known</i></b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>		Application Number	09/362,693
		Filing Date	07/29/1999
		First Named Inventor	Mills
		Group Art Unit	1745
		Examiner Name	Kalafut
Sheet	3	of	42
		Attorney Docket Number	

## **U.S. PATENT DOCUMENTS**

<b>Examiner Signature</b>	/Stephen Kalafut/	<b>Date Considered</b>	12/06/2007
-------------------------------	-------------------	----------------------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3) <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449A/PTO				<b>Complete if Known</b>	
				Application Number	09/362,693
				Filing Date	07/29/1999
				First Named Inventor	Mills
				Group Art Unit	1745
				Examiner Name	Kalafut
Sheet	4	of	<del>2</del> 42	Attorney Docket Number	

<b>FOREIGN PATENT DOCUMENTS</b>								
Examiner Initials*	Cite N o. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
/SK/		WO	99/26078	A1	Mills	5-27-1999		
		WO	99/34322	A1	Mills	7-8-1999		
		WO	00/07931	A1	Mills	02-17-2000		
		WO	00/07932	A2	Mills	2-17-2000		
		WO	00/25320	A1	Davies	05-04-2000		
		WO	01/095944	A2	Mills	12-20-2001		
		WO	01/18948	A1	Mills	3-15-2001		
		WO	01/21300	A2	Mills	03-29-2001		
		WO	01/22472	A2	Mills	3-29-2001		
		WO	01/70627	A3	Mills	08-27-2001		
		WO	02/08787	A2	De Geus	01-31-2002		
↓		WO	02/087291	A2	Mills	10-31-2002		
/SK/		WO	02/088020	A2	Mills	11-7-2002		

Examiner Signature	/Stephen Kalafut/	Date Considered	12/06/2007
--------------------	-------------------	-----------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449A/PTO				<b>Complete if Known</b>	
				Application Number	09/362,693
				Filing Date	07/29/1999
				First Named Inventor	Mills
				Group Art Unit	1745
				Examiner Name	Kalafut
Sheet	5	of	<del>2</del> 42	Attorney Docket Number	

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite N o. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)			
/SK/		WO	02/16956	A1	Mills	2-28-2002	
		WO	03/093173	A2	Mills	11-13-2003	
		WO	03/066516	A2	Mills	8-14-2003	
		WO	04/092058	A2	Mills	10-28-2004	
		WO	05/041368	A2	Mills	10-6-2005	
		WO	05/067678	A2	Mills	7-28-2005	
		WO	2005/116630	A1	Mills	12-08-2005	
		WO	2007/051078	A1	Mills	05-03-2007	
		WO	2007/053486	A1	Mills	05-10-2007	
▼		GB	2 343 291		Lloyd Wise, Tregear & Co.	05-13-2000	
/SK/		JP	2002008892A		Shimazu	01-2002	

Examiner Signature	/Stephen Kalafut/	Date Considered	12/06/2007
--------------------	-------------------	-----------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449B/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet	6	of	<del>2</del>	42	Attorney Docket Number
-------	---	----	--------------	----	------------------------

**Complete if Known**

Application Number	09/362,693
Filing Date	07/29/1999
First Named Inventor	Mills
Group Art Unit	1745
Examiner Name	Kalafut

**OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
/SK/		S. Aaronson, "Hydrino Theory: Which Overturns Quantum Theory, Is in Turn Overturned by Doofusino Theory," < <a href="http://www.scottaaronson.com/writings/doofusino.html">http://www.scottaaronson.com/writings/doofusino.html</a> > (no date)	
/SK/		"Atomic Physics Progress Report 1995-1996" (internet page) atompc2.fysik.lth.se/AFDOCS/Progres956/contents.asp (author and date unknown)	
/SK/		"Atomic Spectroscopy" (internet page) physics.nist.gov/Pubs/AtSpec/node20.html (author and date unknown)	
/SK/		Baard, Erik. "The Empire Strikes Back." <i>The Village Voice</i> , April 26-May 2, 2000	
/SK/		Baard, Erik. "Quantum Leap." <i>The Village Voice</i> , Dec 22-28, 1999.	
		Baard, Erik. "Researcher Claims Power Tech That Defies Quantum Theory." <i>Dow Jones Newswires</i> , Oct 6, 1999. (cited in paper no. 10)	
/SK/		Baard, Erik, "Hydrino Theorist Gets Nod From NASA-Funded Investigation Eureka?", <i>The Village Voice</i> , Dec. 6, 2002	
		Bannmann et. al. "Spatially and Temporally Resolved Studies of the Electron Density in Liquid Streamers by Emission Spectroscopy" (internet page) atompc2.fysik.lth.se/AFDOCS/Progres956/5.htm (Atomic Physics Progress Report) (1995-1996) (cited in paper no. 30)	
		Born, "Bigger Than Fire?", Gale Group Magazine DB, The Gale Group, 2003, Skeptic, Vol. 9, No. 4, (2001)	
/SK/		Barton, et al, "Investigating Radio Frequency Plasmas Used for the modification of Polymer Surfaces." <i>J. Phys. Chem. B</i> , Vol 103, 1999, pp. 4423-4430. (no month)	
Examiner Signature	/Stephen Kalafut/		Date Considered 12/06/2007

Substitute for form 1449B/PTO				Complete If Known	
				Application Number	09/362,693
				Filing Date	07/29/1999
				First Named Inventor	Mills
				Group Art Unit	1745
				Examiner Name	Kalafut
Sheet	7	of	<u>35</u> 42	Attorney Docket Number	

## OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
/SK/		R. W. Bass, "Email from Bob Bass to Randell Mills," August 6, 2000.	
		Beiser, A. <i>Concepts of Modern Physics</i> , Fourth Edition, McGraw-Hill Book Company, New York, 1978, p. 407.	
		Best, Ben. "The Copenhagen Interpretation of Quantum Mechanics." (internet page) <a href="http://www.benbest.com/science/quantum.html">www.benbest.com/science/quantum.html</a> . (no date listed)	
/SK/		"The Biggest Venture Capital Conference of the Year is Quickly Approaching," Special to Evening Bulletin 09/29/2006, < <a href="http://www.theeveningbulletin.com/site/news.cfm?newsid=17263371&amp;BRD=2737&amp;PAG=461">http://www.theeveningbulletin.com/site/news.cfm?newsid=17263371&amp;BRD=2737&amp;PAG=461</a> >	
/SK/		Blacklight Power, Inc., "Second Shareholder Newsletter '97" < <a href="http://web.archive.org/web/19980212141859/blacklightpower.com/sharenews2.html">http://web.archive.org/web/19980212141859/blacklightpower.com/sharenews2.html</a> >  (Oct 1997)	
		Bogaerts, et al. "Effects of adding hydrogen to an argon glow discharge: overview of relevant processes and some qualitative explanations." <i>Journal of Analytical Atomic Spectrometry</i> , March 2000.	
		Boniface, et. al. "Calorimetry for a Ni/K <sub>2</sub> CO <sub>3</sub> Cell." AEGL Research, June 1994.	
		Bradford. "A Calorimetric Investigation of the Reaction of Hydrogen with Sample PSU #1." A Confidential Report submitted to Hydrocatalysis Power Corporation, September 1994.	
/SK/		Brewer, Shelby T. Book review of "The grand Unified Theory of Classical Quantum Mechanics (Hardcover) by Randell L., Dr. Mills." (internet page) <a href="http://www.amazon.com/gp/product/product-description/0963517139/ref=dp_proddesc_0/103-5711659-8507030">http://www.amazon.com/gp/product/product-description/0963517139/ref=dp_proddesc_0/103-5711659-8507030</a> (date unknown)	
		Carolina, et al. "Effect of Dielectric Constant, Cavities in Series and Cavities in Parallel on the Product Distribution of the Oligomerization of Methane via Microwave Plasmas." <i>J. Phys. Chem.</i> , Vol 100, 1996, pp. 17866-17872.  (same as Dery et al., page 9)	
Examiner Signature	/Stephen Kalafut/		Date Considered 12/06/2007

Substitute for form 1449B/PTO		<i>Complete If Known</i>		
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>		Application Number	09/362,693	
		Filing Date	07/29/1999	
		First Named Inventor	Mills	
		Group Art Unit	1745	
		Examiner Name	Kalafut	
Sheet	8	of	<del>2</del>	42
Attorney Docket Number				

#### **OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. '	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T-2
		<u>Chemistry Course Listings in MIT OpenCourseWare, MIT 2005.</u> <a href="http://ocw.mit.edu/OcwWeb/Chemistry/index.htm">http://ocw.mit.edu/OcwWeb/Chemistry/index.htm</a>	
		<u>"The Chemistry of Halogens,"</u> <a href="http://chemed.chem.psu.edu/genchem/topicreview/bp/ch10/group7.html">http://chemed.chem.psu.edu/genchem/topicreview/bp/ch10/group7.html</a>	
/SK/		CiteSeer, "Citations: Observation of Extreme Ultraviolet Hydrogen Emission from Incandescently Heated Hydrogen Gas with Strontium that Produced an Anomalous Optically Measured Power Balance," <i>Int. J. Hydrogen Energy</i> 26 (4) 2001, pg. 309-326 (no month) <a href="http://citeseer.ist.psu.edu/11740000410104.html">http://citeseer.ist.psu.edu/11740000410104.html</a>	
		Clark, et. al. "Excess Energy Cell Final Report." April 1993.	
		<u>Gellman, "Getting the Free Lunch," Scientific American, (Nov. 2002)</u>	
		<u>Condon, et. al. "The Theory of Atomic Spectra." MacMillan Company, New York. 1935. pp. 44-78, 112-146.</u>	
/SK/		Conrads, et. al. "Emission in the Deep Vacuum Ultraviolet from an Incandescently Driven Plasma in a Potassium Carbonate Cell", <i>Plasma Sources Science and Technology</i> , submitted. (no date)	
/SK/		Conversion Table cgs/SI-Units. <a href="http://www.plasmaphysics.org.uk/convers.htm">www.plasmaphysics.org.uk/convers.htm</a> (no date)	
		<u>Gvetanovic et. al. "Excessive Balmer-line broadening in a plane-cathode abnormal glow discharge in hydrogen." <i>Journal of Applied Physics</i> 97. 18 January 2005.</u>	
/SK/		Dennis "Hidden Variables and Relativistic Tachyons" (internet page) <a href="http://www.objectivescience.com/articles/ed_tachy.htm">www.objectivescience.com/articles/ed_tachy.htm</a> (Date unknown)	

Substitute for form 1449B/PTO				<i>Complete if Known</i>	
				Application Number	09/362,693
				Filing Date	07/29/1999
				First Named Inventor	Mills
				Group Art Unit	1745
				Examiner Name	Kalafut
Sheet	9	of	<del>25</del>	Attorney Docket Number	

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			
		Dery et. al. "Effect of Dielectric constant, Cavities in Series, and Cavities in Parallel on the Product Description of the Oligomerization of Methane via Microwave Plasmas." <i>Journal of Physical Chemistry</i> 1996, Vol. 100, July 8, 1996. pp. 17866-17872.			
/SK/		Directory: Blacklight Power, From PESWiki "A Top 100 Energy Technology," < <a href="http://peswiki.com/index.php/Directory:Blacklight_Power">http://peswiki.com/index.php/Directory:Blacklight_Power</a> > (no date)			
/SK/		Durr, et. al. "Origin of quantum-mechanical complementarity probed by a 'which-way' experiment in an atom interferometer." <i>Nature</i> , Vol 395, September 3, 1998, pp. 33-37.			
		EarthTech Reports, <a href="http://www.earthtech.org/experiments/blp/prelim.html">http://www.earthtech.org/experiments/blp/prelim.html</a>			
		EarthTech Reports, <a href="http://www.earthtech.org/experiments/mills/mills1.html">http://www.earthtech.org/experiments/mills/mills1.html</a> "Attempt to Observe Excess Heat in a Ni-H <sub>2</sub> O-K <sub>2</sub> CO <sub>3</sub> Electrolysis System-9 OCT 97"			
		Evans, et. al. "Time-of-Flight Secondary Ion Mass Spectroscopy (TOF-SIMS) Surface Analysis Report." CE & A Number 10150, March 1994, available at <a href="http://www.cea.com/finet.htm#cesca2">http://www.cea.com/finet.htm#cesca2</a> .			
		Evans Analytical Group, <a href="http://www.cea.com/tech.htm#cesca1">http://www.cea.com/tech.htm#cesca1</a>			
		Dr. Ece, "History and Philosophy of Science," <a href="http://www.dray.edu/ece/shilcei/bell.html">www.dray.edu/ece/shilcei/bell.html</a>			
		E-mail to Examiner Wayner from Jeffrey A. Simenauer, dated _____			
/SK/		Fischer. "Die optische Absorption der U <sub>2</sub> -Zentren in Alkalihalogenidkristallen", <i>Zeitschrift für Physik</i> , Vol 131, 1952, pp. 488-504. (no month)			
Examiner Signature	/Stephen Kalafut/		Date Considered	12/06/2007	

Substitute for form 1449B/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet	10	of	<u>2</u>
-------	----	----	----------

<i>Complete If Known</i>	
Application Number	09/362,693
Filing Date	07/29/1999
First Named Inventor	Mills
Group Art Unit	1745
Examiner Name	Kalafut

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
/SK/		M. Fowler, "The Lorentz Transformation," UVa Physics 252, < <a href="http://galileo.phys.virginia.edu/classes/252/lorentztrans.html">http://galileo.phys.virginia.edu/classes/252/lorentztrans.html</a> > (no date)	
/SK/		Fuchs and Peres. "Quantum Theory Needs No 'Interpretation'." Physics Today, March 2000, p. 70.	
		Gernet, et. al. "Anomalous Heat From Atomic Hydrogen in Contact with Potassium Carbonate." Thermacore, Inc.	
		Gottfried, "Quantum electrodynamics: Matter all in the mind", (internet page) <a href="http://www.nature.com/egaitf/DynePage1...e/journal/v410/n6869/full/410117a.html">www.nature.com/egaitf/DynePage1...e/journal/v410/n6869/full/410117a.html</a> , 2002	
		Gulyaev "Gigantic Atoms in Space" (internet page) <a href="http://www.astronomy.org.nz/events/monthly_reviews/2004/gigantic_atoms_in_space.htm">www.astronomy.org.nz/events/monthly_reviews/2004/gigantic_atoms_in_space.htm</a> (date unknown)	
		Hansen, et. al. "Faradaic efficiencies less than 100% during electrolysis of water can account for excess heat in 'cold fusion' cells," J. of Physical Chem., Vol. 99, No. 10 (1997) pp. 6973-6979 (Paper I). (cited in paper no. 10)	
/SK/		The Harvard Crimson News: Academics Question the Science Behind Blacklight Power, Inc." < <a href="http://www.the.crimson.com/printerfriendly.aspx?ref=100939">http://www.the.crimson.com/printerfriendly.aspx?ref=100939</a> > (Oct 2007)	
		He II in Solar Spectrum	
/SK/		Hines, "Scientific Mistakes: N-rays and Polywater", <i>Pseudoscience and the Paranormal</i> , Prometheus Books, 1988, pp. 8-13 (no month)	
		<a href="http://www.hotfi.com/optics/1_c/2004/zenith/spectroscopy.pdf">http://www.hotfi.com/optics/1_c/2004/zenith/spectroscopy.pdf</a>	
Examiner Signature	/Stephen Kalafut/	Date Considered	12/06/2007

Substitute for form 1449B/PTO				<b>Complete If Known</b>	
				Application Number	09/362,693
				Filing Date	07/29/1999
				First Named Inventor	Mills
				Group Art Unit	1745
				Examiner Name	Kalafut
Sheet	11	of	<del>42</del>	Attorney Docket Number	

**OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		<a href="http://hyperphysics.phy-astr.gsu.edu/base/kinetic/molke.htm">http://hyperphysics.phy-astr.gsu.edu/base/kinetic/molke.htm</a>	
		Huizong, "Abstract from 'New developments in the cold fusion saga!'" Abstracts of papers of the American Chemical Society, Vol 207, March 13, 1994, pg. 6.	
/SK/		"Hydrino Theory," < <a href="http://en.wikipedia.org/wiki/hydribo_theory">http://en.wikipedia.org/wiki/hydribo_theory</a> > (no date)	
/SK/		"The Hydrogen Atom," < <a href="http://www.physics.nmt.edu/~raymond/classes/ph13xbook/node208.html">http://www.physics.nmt.edu/~raymond/classes/ph13xbook/node208.html</a> > (no date)	
/SK/		Hydrogen News 1999 < <a href="http://www.ch2bc.org/bulletin/bulletin19991112.htm">http://www.ch2bc.org/bulletin/bulletin19991112.htm</a> > (Nov 1999)	
		The Internet Encyclopedia of Philosophy, "Logical Positivism," <a href="http://ceps.utm.edu/loppos.htm">http://ceps.utm.edu/loppos.htm</a>	
		Jacox, et. al. "INEL XPS Report." Idaho National Engineering Laboratory, EG & G Idaho, Inc., Nov 1993.	
		Janssen, "Hydrocatalysis: A New Energy Paradigm for the 21 <sup>st</sup> Century," A Thesis, Master of Science in Engineering Degree in the Graduate Division of Rowan University, May 1997.	
/SK/		Johansson, et. al. "A Model for the origin of the anomalous and very bright UV lines of FE II in gaseous condensations of the star η Carinae" <i>Astronomy &amp; Astrophysics</i> . Volume 378 (2001) pp.266-278. (no month)	
		Karpilus and Porton, <i>Atoms and Molecules An Introduction for Students of Physical Chemistry</i> , The Benjamin/Cummings Publishing Company, Menlo Park, California, 1970, p. 3, 118-123.	
Examiner Signature	/Stephen Kalafut/		Date Considered /Stephen Kalafut/

Substitute for form 1449B/PTO				<b>Complete If Known</b>	
				Application Number	09/362,693
				Filing Date	07/29/1999
				First Named Inventor	Mills
				Group Art Unit	1745
				Examiner Name	Kalafut
Sheet	12	of	<del>42</del>	Attorney Docket Number	

**OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		<del>Karplus and Porter. Atoms and Molecules: An Introduction for Students of Physical Chemistry, The Benjamin/Cummings Publishing Company, Menlo Park, California, 1970, p. 567.</del>	
/SK/		Keefer, Ph.D., "Interim Report on BlackLight Power Technology: Its Apparent Scientific Basis, State of Development and Suitability for Commercialization by Liebert Corporation." <i>(no date)</i>	
/SK/		Kline-Anderson, Inc. "Review of Schedule and Resource Requirements to Develop a Hydrocatalysis Functional Prototype Unit." Final Report for Technology Insights, Oct 1996.	
		<del>Kovacevic et. al. "The Dynamic Response of the Plasma on the Dust Formation in Ar/C<sub>2</sub>H<sub>2</sub> RF Discharges." International Conference on Phenomena in Ionized Gases available at <a href="http://www.iopig.uni-greifswald.de/proceedings/data/kovacevic_1">http://www.iopig.uni-greifswald.de/proceedings/data/kovacevic_1</a>. (no date listed)</del>	
		<del>Kuhn, H.G. "Atomic Spectra." Academic Press: New York. 1962. pp. 114-117.</del>	
/SK/		Kurtz, et. al. "Report on Calometric Investigations of Gas-Phase Catalyzed Hydrogen Formation." Hydrocatalysis Power Corp. Report, December 1996.	
		<del><a href="http://omm.bnl.gov/optics/I-0/2004/luennot/spectroscopy.pdf">http://omm.bnl.gov/optics/I-0/2004/luennot/spectroscopy.pdf</a></del>	
		<del><a href="http://hyperphysics.phy-astr.gsu.edu/hbase/kinetic/melko.html">http://hyperphysics.phy-astr.gsu.edu/hbase/kinetic/melko.html</a></del>	
		<del>F. Jeloo, "Do we really understand quantum mechanics?" Am. J. Phys., vol. 69(6), (June 2001), pp. 655-701.</del>	
		<del>"The Linear Stark Effect," University of Texas Lecture, <a href="http://farside.ph.utexas.edu/teaching/qm/perturbation/node8.html">http://farside.ph.utexas.edu/teaching/qm/perturbation/node8.html</a></del>	
Examiner Signature	/Stephen Kalafut/		Date Considered 12/06/2007

Substitute for form 1449B/PTO				<b>Complete If Known</b>	
				Application Number	09/362,693
				Filing Date	07/29/1999
				First Named Inventor	Mills
				Group Art Unit	1745
				Examiner Name	Kalafut
Sheet	13	of	<del>2</del> 42	Attorney Docket Number	

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T <sup>2</sup>
		Luque et. al. "Experimental research into the influence of ion dynamics when measuring the electron density from the Stark broadening of the H <sub>a</sub> and H <sub>b</sub> lines." <i>Journal of Physics B: Atomic, Molecular, and Optical Physics</i> , Vol. 36., 2003. pp.1573-1584.			
		Marchese et. al. "The BlackLight Rocket Engine." Phase I Final Report, Rowan University: Glassboro, NJ. May 1 November 30, 2002, available at <a href="http://www.niac.usra.edu/files/studies/finalreport">www.niac.usra.edu/files/studies/finalreport</a> . also available at <a href="http://www.blacklightrocket.com">http://www.blacklightrocket.com</a>			
/SK/		"Material Hardness," <a href="http://www.calce.umd.edu/general/facilities/hardness_ad.htm">http://www.calce.umd.edu/general/facilities/hardness_ad.htm</a> (no date)			
		Mayo, et. al. "On the Potential of Direct and MHD Conversion of Power from a Novel Plasma Source to Electricity for Micro-distributed Power Applications", <i>IEEE Transactions on Plasma Science</i> , submitted.			
		McQuarrie. "Quantum Chemistry" University Science Books. Sausalito, CA. 1983 Sections 4-3, 6-4 - 6-9, 8-5 - 8-6 and pp. 221-222.			
		Nakhmanson. "The Ghostly Solution of the Quantum Paradoxes and its Experimental Verification." <i>Frontiers of Fundamental Physics</i> . Plenum Press. New York. 1994. pp. 591-596, <a href="http://arxiv.org/ftp/physics/papers/0103/0103006.pdf">http://arxiv.org/ftp/physics/papers/0103/0103006.pdf</a>			
		NIST's Physical Reference Datasheet, "Energy Levels of Hydrogen and Deuterium," <URL <a href="http://physics.nist.gov/PhysRefData/HDEL/index.html">http://physics.nist.gov/PhysRefData/HDEL/index.html</a> >			
/SK/		Odenthal et al., "The Zeeman Splitting of the 5876 Å Helium Line Studied by Means of a Turnable Dye Laser", <i>Physica</i> , pp. 203-216, 1982 (no month)			
		Park, Robert L. "Perpetual Motion: Still Going Around." <i>Washington Post</i> , January 12, 2000, pg H03.			
/SK/		Park, What's New, Friday 03/17/2006			
Examiner Signature	/Stephen Kalafut/		Date Considered	12/06/2007	

Substitute for form 1449B/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet	14	of	<del>39</del> 42	Attorney Docket Number
-------	----	----	------------------	------------------------

**Complete if Known**

Application Number	09/362,693
Filing Date	07/29/1999
First Named Inventor	Mills
Group Art Unit	1745
Examiner Name	Kalafut

**OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS**

Examinee Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
/SK/		Park, What's New, Friday 01/13/2006	
/SK/		Park, What's New, Friday 04/26/1991	
/SK/		Peterson. "Evaluation of Heat Production from Light Water Electrolysis Cell of Hydrocatalysis Power Corporation." Draft, Westinghouse STC, Feb 1994.	
		Phillips, et. al. "Additional Calorimetric Examples of Anomalous Heat From Physical Mixture of K/Carbon and PD/Carbon." Consulting Report, Jan 1996.	
		<u>Plasmaphysics.org. Conversion Table: ega/Sl units. (internet page)</u> <u><a href="http://www.plasmaphysics.org.uk/convers.htm">www.plasmaphysics.org.uk/convers.htm</a></u> , (no author or date listed)  (also cited on page 8)	
		Platt, Charles. "Testing the Current." Washington Post, June 25, 2000, pg X05.	
		Physics 200-04 course, "Pauli Spin Matrices," <u><a href="http://axion.physics.ubc.ca/200-04/pauli-spin.pdf">http://axion.physics.ubc.ca/200-04/pauli-spin.pdf</a></u>	
		Physics Web 08/06/2005, "Hydrogen results causes controversy"	
/SK/		Popov. "Electrochemical Characterization of BlackLight Power, Inc. MH as Electrodes for Li-Ion Batteries." Department of Chemical Engineering University of South Carolina, Feb 2000.	
		Quantum Physics 301, "Paradoxes and Interpretation." <u><a href="http://www.teach.phy.bris.ac.uk/level3/phys30400/coursematerials/paradoxes.pdf">http://www.teach.phy.bris.ac.uk/level3/phys30400/coursematerials/paradoxes.pdf</a></u>	
Examiner Signature	/Stephen Kalafut/	Date Considered	12/06/2007

Substitute for form 1449B/PTO				<i>Complete if Known</i>	
				Application Number	09/362,693
				Filing Date	07/29/1999
				First Named Inventor	Mills
				Group Art Unit	1745
				Examiner Name	Kalafut
Sheet	15	of	<del>42</del>	Attorney Docket Number	

## OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		<del>Redchenkov, et. al. "Ion Kinetic Energy Distributions and Balmer <math>\alpha</math> Excitation in Ar-H<math>^2</math> Radio Frequency Discharges." J. Appl. Phys., Vol 78, No 2, July 15, 1995, pp. 746-756.</del>	
		<del>Rothke "A Critical Analysis of the Hydroline Model", New Journal of Physics, May 10, 2005, <a href="http://www.iop.org/ej/article/1367-2630/7/1/127/njp5_1_127.html">http://www.iop.org/ej/article/1367-2630/7/1/127/njp5_1_127.html</a></del>	
/SKI		Real Climate, 20 January 2005, "Peer Review: A Necessary But Not Sufficient Condition," < <a href="http://www.realclimate.org/index.php?p=109">http://www.realclimate.org/index.php?p=109</a> >	
		<del>Roberts, et. al. "Hydrogen Balmer alpha line shapes for hydrogen-argon mixtures in a low pressure rf discharge." J. App. Phys, vol. 74, No11, (Dec. 1993).</del>	
		<del>K. L. Rose, "Kantian Quantum Mechanics," <a href="http://www.frixiion.com/specie_2.htm">http://www.frixiion.com/specie_2.htm</a></del>	
/SKI		Shermer, "Baloney Detection", Scientific American, November 2001	
		<del>Shook. "A Pragmatically Realistic Philosophy of Science." Pragmatic Naturalism and Realism. Prometheus Books. Amherst, NY. 2000, <a href="http://www.pragmatism.org/shook/pragmatic_and_realistic.htm">http://www.pragmatism.org/shook/pragmatic_and_realistic.htm</a>.</del>	
		<del>Scouw, Bernard, "Coherent Telescope array with self-homodyne interferometric detection for optical communications," Opt. Eng. 42(11) 3139-3157 (Nov. 2003).</del>	
		<del>E.K.Scouw, "Anomalous Broadening and Splitting of He I and Ar Lines in microwave plasmas," unpublished data, 12/01/2003.</del>	
/SKI		Thermacore, Inc. "SBIR Phase I Nascent Hydrogen: An Energy Source." Final Report, March 1994.	
Examiner Signature	/Stephen Kalafut/		Date Considered 12/06/2007

Substitute for form 1449B/PTO				Complete if Known	
				Application Number	09/362,693
				Filing Date	07/29/1999
				First Named Inventor	Mills
				Group Art Unit	1745
				Examiner Name	Kalafut
Sheet	16	of	<del>25</del> 42	Attorney Docket Number	

## OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (In CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
/SK/		Thorne, et. al. "Recombination during the Electrolysis of Light Water in 0.6 M K <sub>2</sub> CO <sub>3</sub> Can It Account for the Reports of Excess Heat?" <i>Departments of Physics and Chemistry, Brigham Young University</i> , June 1993.	
/SK/		Time 2 wake up: "New Power SOURCE that turns physics on its head," 11/09/2005.	
/SK/		Turner. "Declaration of Dr. Gary L. Turner." 24 August 2004.	
		<del>U.S. Department of Commerce, Summary of Ethics Rules, USPTO, 2000, October 15, 2004</del>	
/SK/		Videnovic, et al. "Spectroscopic investigations of a cathode fall region of the Grimm-type glow discharge." <i>Spectrochimica Acta Part B</i> , Vol 51, 1996, pp. 1707-1731.  (no month)	
		<del>Welcome to MIT's OpenCourseWare Home Page. MIT 2005. <a href="http://www.mit.edu/index.html">http://www.mit.edu/index.html</a></del>	
/SK/		Weisskopf, V.F. "Recent developments in the theory of the electron." <i>Reviews of Modern Physics</i> , Vol 21, No 2, 1949, pp. 305-315.	
/SK/		Wikipedia, Chapter 9: "Peer Review and Fraud," < <a href="http://en.wikipedia.org/wiki/peer_review#peer_review_and_fraud">http://en.wikipedia.org/wiki/peer_review#peer_review_and_fraud</a> >  (no date)	
/SK/		"XPS (EASC) -SAM," <a href="http://www.noveonic.com/measurementscience/analyticalservices/xpseascasam.pdf">http://www.noveonic.com/measurementscience/analyticalservices/xpseascasam.pdf</a>  (no date)	
/SK/		Ziegler, et. al. "Electrochemical Experiments in Cold Nuclear-Fusion." <i>Physical Review Letters</i> , Vol 62, No 25, June 19, 1989, pp. 2929-2932.	
Examiner Signature	/Stephen Kalafut/		Date Considered 12/06/2007

Substitute for form 1449B/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet	17	of	<del>42</del>	Attorney Docket Number
-------	----	----	---------------	------------------------

**Complete if Known**

Application Number	09/362,693
Filing Date	07/29/1999
First Named Inventor	Mills
Group Art Unit	1745
Examiner Name	Kalafut

**OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		CRITCHLEY et al., "Energy shifts and forbidden transitions in H <sub>2</sub> due to electronic g/u symmetry breaking", Molecular Physics, 2003, Vol. 101, Nos. 4-5, pp. 651-661, Taylor & Francis Ltd.	
		GAMBUS et al., "Spectroscopic Study of Low-Pressure Water Plasmas and Their Reactions with Liquid Hydrocarbons", Energy & Fuels, 2002, 16, pp. 172-176, American Chemical Society	
		AKATSUKA et al., "Stationary population inversion of hydrogen in an arc-heated magnetically trapped expanding hydrogen-helium plasma jet", Physical Review E, 49, 2, pp. 1534-1544, February, 1994, The American Physical Society	
		MURAKAMI et al., "Chemisorption of hydrogen into a graphite-potassium intercalation compound C <sub>x</sub> K studied by means of positron annihilation", J. Chem. Phys., 62 (10), May 15, 1995, American Institute of Physics	
		AHN, "Hydrogen Storage in Metal-Modified Single-Walled Carbon Nanotubes", Division of Engineering and Applied Science, California Institute of Technology, September 15, 2001	
		DUAN et al., "Numerical calculation of energies of some excited states in a helium atom", Eur. Phys. J., D 19, (2002), pp. 9-12, Societa Italiana di Fisica, Springer-Verlag 2002	
		NIXON et al., "Formation and structure of the potassium graphites", Brit. J. Appl. Phys., Ser. 2, Vol., 1, pp. 291-299, Great Britain, 2002	
		ZELLINGER, "Experiment and the foundations of quantum physics", Reviews of Modern Physics, Vol 71, No. 2, pp. S288-S297, Centenary 1999, The American Physical Society	
		COTTON et al., "Complexes of Cyclic 2-Oxazabenzene, I. A Spontaneous Cyclization to Form a Complex of 2-Oxacyclopentylidene", Journal of the American Chemical Society, 93:11, pp. 2672-2676, June 2, 1971	
		LINDSAY et al., "A remeasurement of the 2.4-μm spectrum of J = 1-H <sub>2</sub> pairs in a parahydrogen crystal", Journal of Molecular Spectroscopy, 218, Pp. 131-133, 2003	
Examiner Signature	/Stephen Kalafut/	Date Considered	12/06/2007

Substitute for form 1449B/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet	18	of	<del>37</del> 42	Attorney Docket Number
-------	----	----	------------------	------------------------

**Complete if Known**

Application Number	09/362,693
Filing Date	07/29/1999
First Named Inventor	Mills
Group Art Unit	1745
Examiner Name	Kalafut

**OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. '	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		JUAREZ et al, "Photoelectron angular distributions of rotationally relaxed states in para-H <sub>2</sub> : A closer to the dynamics of molecular photoionisation", The University of Manchester Atomic,	
		WEISSTEIN, "Ortho-Para Hydrogen", <a href="http://scienceworld.wolfram.com/physics/OrthoParaHydrogen.html">http://scienceworld.wolfram.com/physics/OrthoParaHydrogen.html</a>	
		SMITH, "Infrared spectra of D <sub>2</sub> - in the alkali halides-L. Potassium and rubidium halides", Spectrochimica Acta, Vol. 30A, pp. 875-882, Pergamon Press, 1974	
		LEITCH et al., "Raman Spectroscopy of Hydrogen Molecules in Crystalline Silicon", Physical Review Letters, 81:2, pp. 421-424, July 13, 1998, The American Physical Society	
		CHEN et al., "Key to Understanding Interstitial H <sub>2</sub> in Si", Physical Review Letters, 88:10, pp. 105507-1 - 105507-4, March 11, 2002, The American Physical Society	
		CHEN et al., "Rotation of Molecular Hydrogen in Si: Unambiguous Identification of Ortho-H <sub>2</sub> and Para-D <sub>2</sub> ", Physical Review Letters, 88:24, pp. 245503-1 - 245503-4, June 17, 2002, The American Physical Society	
		LAVROV et al., "Ortho and Para Interstitial H <sub>2</sub> in Silicon", Physical Review Letters, 89:31, pp. 215501-1 - 215501-4, November 18, 2002, The American Physical Society	
		STAVOLA et al., "Interstitial H <sub>2</sub> in Si: are all problems solved?", Physica B, pp. 58-66, 2000 Elsevier B.V.	
		DEGIUS et al., "Force Constants of the Metaborate Ion in Alkali Halides", The Journal of Chemical Physics, 56:10, pp. 5189-5190, May 15, 1972	
		"Infrared spectra of the metaborate ion in alkali halide solid solution", Research Notes, pp. 600-602	
Examiner Signature	/Stephen Kalafut/	Date Considered	12/06/2007

Substitute for form 1449B/PTO				<i>Complete if Known</i>	
				Application Number	09/362,693
				Filing Date	07/29/1999
				First Named Inventor	Mills
				Group Art Unit	1745
				Examiner Name	Kalafut
Sheet	19	of	<i>2</i>	Attorney Docket Number	

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T <sup>2</sup>
		SMITH, "Anharmonic force field of the metaborate ion in alkali halides", The Journal of Chemical Physics, 58:11, pp. 4776-4778, June 1, 1973			
		HISATSUNE et al., "Infrared Spectra of Metaborate Monomer and Trimer Ions", Inorganic Chemistry, pp. 168-174			
		JONES et al., "Force Constants of Nickel Carbonyl from Vibrational Spectra of Isotopic Species", The Journal of Chemical Physics, 48:6, pp. 2663-2670, March 15, 1968			
		SMITH, "Infrared spectra of BO <sub>2</sub> in the alkali halides I. Potassium and rubidium halides", Spectrochimica Acta, 30A, pp. 875-882, 1974, Pergamon Press			
		OHOENFELDER et al., "Kinetics of Thermal Decomposition of TiH <sub>2</sub> ", J. Vac. Sci. Technol., 10:5, pp. 862-870, Sept./Oct. 1973			
		"Emission Characteristics for Scandium Type Dispenser Cathodes", HeatWave Labs, Inc., TB 119, May 24, 2001, Spectra-Mat, Inc.			
		"Emission Characteristics of 'M-Type' Dispenser Cathodes", HeatWave Labs, Inc., TB-117, May 24, 2001, Spectra-Mat, Inc.			
		"Practical Aspects of Modern Dispenser Cathodes", Microwave Journal, September, 1970			
		"Standard Series Barium Tungsten Dispenser Cathodes", HeatWave Labs, Inc., TB-190, July 29, 2002, Spectra-Mat, Inc.			
		ABATE et al., "Optimization and enhancement of H- ions in a magnetized sheet plasma", Review of Scientific Instruments, 71:10, pp. 3600-3605, October 2000, American Institute of Physics			
Examiner Signature	/Stephen Kalafut/		Date Considered	12/06/2007	

Substitute for form 1449B/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

				<b>Complete If Known</b>
				Application Number <b>09/362,693</b>
				Filing Date <b>07/29/1999</b>
				First Named Inventor <b>Mills</b>
				Group Art Unit <b>1745</b>
				Examiner Name <b>Kalafut</b>

Sheet	<b>20</b>	of	<del>25</del>	<b>42</b>	Attorney Docket Number
-------	-----------	----	---------------	-----------	------------------------

## OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			
					<b>T<sup>2</sup></b>
		CHABERT et al., "On the influence of the gas velocity on dissociation degree and gas temperature in a flowing microwave hydrogen discharge", <i>Journal of Applied Physics</i> , 94:1, pp. 161-167, July 1, 2009, American Institute of Physics			
		GORDON et al., "Energy coupling efficiency of a hydrogen microwave plasma reactor", <i>Journal of Applied Physics</i> , 90:3, pp. 1644-1649, February 1, 2004, American Institute of Physics			
		RADOVANOV et al., "Time-resolved Balmer-alpha emission from fast hydrogen atoms in low pressure, radio frequency discharges in hydrogen", <i>Appl. Phys. Lett.</i> , 66:26, pp. 2607-2609, May 15, 1995			
		DJUROVIC et al., "Hydrogen Balmer alpha line shapes for hydrogen-argon mixtures in a low-pressure rf-discharge", <i>J. Appl. Phys.</i> , 74:11, pp. 6550-6566, December 1, 1993, American Institute of Physics			
		KONJEVIC, "Plasma Broadening and Shifting of Non-Hydrogenic Spectral Lines: Present Status and Applications", <i>Physics Reports</i> , 315, pp. 339-401, 1999, Elsevier			
		BENESCH et al., "Line shapes of atomic hydrogen in hollow cathode discharges", <i>Optics Letters</i> , 9:8, pp. 338-340, August 1984, Optical Society of America			
		AYERS, et al., "Shapes of atomic hydrogen lines produced at a cathode surface", <i>Physical Review A</i> , 37:1, pp. 194-200, January 1, 1988, The American Physical Society			
		ADAMOV, et al., "Doppler Spectroscopy of Hydrogen and Deuterium Balmer Alpha Line in an Abnormal Slow Discharge", <i>IEEE Transactions on Plasma Science</i> , 31:3, pp. 444-454, June 3, 2003			
		JOVIGEVIC et al., "Excessive Balmer line broadening in microwave induced discharges", <i>Journal of Applied Physics</i> , 95:1, pp. 24-29, January 1, 2004, American Institute of Physics			
		DJUROVIC et al., "Hydrogen Balmer alpha line shapes for hydrogen-argon mixtures in a low-pressure rf-discharge", <i>J. Appl. Phys.</i> , 74:11, pp. 6550-6566, December 1, 1993, American Institute of Physics			
Examiner Signature	/Stephen Kalafut/	Date Considered	12/06/2007		

Substitute for form 1449B/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet	21	of	<del>21</del>	42	
-------	----	----	---------------	----	--

**Complete if Known**

Application Number	09/362,693
Filing Date	07/29/1999
First Named Inventor	Mills
Group Art Unit	1745
Examiner Name	Kalafut

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		MAYO, "Thermalization and Energy Distribution in Cold Laboratory Plasmas Comments on the Possibility of Mono-Energetic Species", April 20, 2004	
		VIDENOVIC et al., "Spectroscopic investigations of a cathode fall region of the Grimm type glow discharge", Spectrochimica Acta Part B, 51, pp. 1707-1731, 1996	
		DARBEAU et al., "Spectroscopic investigation of energetic atoms in a DC hydrogen flow discharge", pp. 1168-1174, 1990 IOP Publishing Ltd.	
		KONJEVIC et al., "Emission Spectroscopy of the Cathode Fall Region of an Analytical Glow", J. Phys. IV France, 7, pp. C4-247-C4-258, October 1997	
		LIFSHITZ et al., "Resonance absorption measurements of atom concentrations in reacting gas mixtures. I. Shapes of H and D Lyman $\alpha$ lines from microwave sources", J. Chem. Phys., 70:12, pp. 5607-5613, June 15, 1979, American Institute of Physics	
		KURAICA et al., "Line shapes of atomic hydrogen in a plane-cathode abnormal glow discharge", Physical Review A, 46:7, pp. 4429-4432, October 1, 1992, The American Physical Society	
		KURAICA et al., "On the Atomic Hydrogen Line Shapes in a Plane-Cathode Obstructed Glow Discharge", Physica Scripta., 50, pp. 487-492, 1994	
		OLTHOFF et al., "Studies of Ion Kinetic-Energy Distributions in the Gaseous Electronics Conference RF Reference Cell", Journal of Research of the National Institute of Standards and Technology, 100:4, pp. 383-400, July-August 1995	
		ALEXEFF et al., "Collisionless Ion-Wave Propagation and the Determination of the Compression Coefficient of Plasma Electrons", Physical Review Letters, 75:7, pp. 200-203, August 18, 1990	
		ARATA et al., "Reproducible 'Cold' Fusion Reaction Using a Complex Cathode", Fusion Technology, 22, pp. 287-295, September 1992	
Examiner Signature	/Stephen Kalafut/		Date Considered 12/06/2007

Substitute for form 1449B/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet	22	of	<del>27</del>	42	Attorney Docket Number
-------	----	----	---------------	----	------------------------

**Complete If Known**

Application Number	09/362,693
Filing Date	07/29/1999
First Named Inventor	Mills
Group Art Unit	1745
Examiner Name	Kalafut

**OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		BURKHOLDER et al., "Reactions of boron atoms with molecular oxygen. Infrared spectra of B <sub>0</sub> , B <sub>0</sub> 2, B <sub>2</sub> O <sub>2</sub> , B <sub>2</sub> O <sub>3</sub> , and B <sub>2</sub> O <sub>4</sub> in solid argon", J. Chem. Phys., 95:12, pp. 6697-6703, December 15, 1991	
		SPURGIN, "Direct Conversion of the Random Thermal Energy of a Plasma Into Electrical Energy", Master's Thesis, The University of South Florida, June 1972	
		Technology Insights, "Hydro Catalysis Technical Assessment," (Part of 09/009,837 paper no.: 20050207. This document was submitted by R. Mills on 7/17/02 in co-pending application 09/669,877).	
		Notes on David Peat, "Einstein's Moon: Bell's Theorem and the Curious Quest for Quantum Reality," History and Philosophy of Science-Fall 1997-Dr. Ess. < <a href="http://www.drury.edu/ess/phlsci/bell.html">www.drury.edu/ess/phlsci/bell.html</a> >	
		"Average Molecular Kinetic Energy", < <a href="http://hyperphysics.phy-astr.gsu.edu/hbase/kinetic/molke.html">http://hyperphysics.phy-astr.gsu.edu/hbase/kinetic/molke.html</a> >	
ALL		cited articles on pages 17-22 are ALREADY of record.	
Examiner Signature	/Stephen Kalafut/		Date Considered 12/06/2007

Substitute for form 1449B/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

<i>Complete If Known</i>			
Application Number			09/362,693
Filing Date			07/29/1999
First Named Inventor			Mills
Group Art Unit			1745
Examiner Name			Kalafut

Sheet	23	of	37
			42

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	<p>Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.</p>	<small>T<sup>2</sup></small>
/SK/		116. K. Akhtar, J. Scharer, R. L. Mills, "Substantial Doppler Broadening of Atomic Hydrogen Lines in DC and Capacitively Coupled RF Plasmas," IEEE Transactions on Plasma Science, submitted. (Internet Publication Date: June 6, 2006.)	
/SK/		115. R.L. Mills, H. Zea, J. He, B. Dhandapani, "Water Bath Calorimetry on a Catalytic Reaction of Atomic Hydrogen," International Journal of Hydrogen Energy, in press. (Internet Publication Date: May 12, 2006)	
		114. R.L. Mills, K. Akhtar, B. Dhandapani, "Tests of Features of Field-Acceleration Models for the Extraordinary Selective H Balmer $\alpha$ -Broadening in Certain Hydrogen Mixed Plasmas," J. Plasma Phys., submitted. (Internet Publication Date: June 24, 2005.)	
		113. R.L. Mills, "Physical Solutions of the Nature of the Atom, Photon, and Their Interactions to Form Excited and Predicted Hydride States," Physics Essays, in press. (Internet Publication Date: June 9, 2005.)	
		112. R. L. Mills, J. He, Y. Lu, Z. M. Nansteel, Chang, B. Dhandapani, "Comprehensive Identification and Potential Applications of New States of Hydrogen," Int. J. Hydrogen Energy, Vol. 32, (2007), 2988–3009. (Internet Publication Date: May 9, 2005.)	
		111. R. L. Mills, J. He, Z. Chang, W. Good, Y. Lu, B. Dhandapani, "Catalysis of Atomic Hydrogen to Novel Hydrogen Species H $^{(1/1)}$ and H $^{(1/1)}$ as a New Power Source," International Journal of Hydrogen Energy, Vol. 32(13), (2007), pp. 2573–2584. (Internet Publication Date: May 6, 2005.)	
		110. R. L. Mills, J. He, Z. Chang, W. Good, Y. Lu, B. Dhandapani, "Catalysis of Atomic Hydrogen to Novel Hydrides as a New Power Source," Prop. Pap. Am. Chem. Soc., Div. Fuel Chem. 2005, 50(2). (Internet Publication Date: April 22, 2005.)	
		109. R. L. Mills, M. Nansteel, J. He, B. Dhandapani, "Low-Voltage EUV and Visible Light Source Due to Catalysis of Atomic Hydrogen," J. Plasma Physics, submitted. (Internet Publication Date: April 15, 2005.)	
		108. R. L. Mills, J. He, M. Nansteel, B. Dhandapani, "Catalysis of Atomic Hydrogen to New Hydrides as a New Power Source," International Journal of Global Energy Issues (IJGEI). Special Edition in Energy Systems, in press. (Internet Publication Date: April 4, 2005.)	
		107. R. L. Mills, "Maxwell's Equations and QED: Which is Fact and Which is Fiction," Physics Essays, in press. (Internet Publication Date: October 28, 2004.)	
Examiner Signature	/Stephen Kalafut/		Date Considered
			12/06/2007

Substitute for form 1449B/PTO				<b>Complete if Known</b>	
				Application Number	09/362,693
				Filing Date	07/29/1999
				First Named Inventor	Mills
				Group Art Unit	1745
				Examiner Name	Kalafut
Sheet	24	of	<del>32</del>	Attorney Docket Number	

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T <sup>2</sup>
		106. R. L. Mills, "Exact Classical Quantum Mechanical Solution for Atomic Helium which Predicts Conjugate Parameters from a Unique Solution for the First Time," Physics Essays submitted. (Internet Publication Date: October 28, 2004.)			
		105. J. Phillips, C. K. Chen, R. L. Mills, "Evidence of Catalytic Production of Hot Hydrogen in RF-Generated Hydrogen/Argon Plasmas," International Journal of Hydrogen Energy, Vol. 32, (2007), 3010–3025. (Internet Publication Date: September 7, 2004.)			
		104. R. L. Mills, Y. Lu, M. Nansteel, J. He, A. Voigt, W. Good, B. Dhandapani, "Energetic Catalyst-Hydrogen Plasma Reaction as a Potential New Energy Source," Division of Fuel Chemistry, Session Advances in Hydrogen Energy, 228th American Chemical Society National Meeting, March 28–April 1, 2004, Philadelphia, PA.			
		103. R. L. Mills, Dhandapani, W. Good, J. He, "New States of Hydrogen Isolated from K <sub>2</sub> CO <sub>3</sub> Electrolysis Gases," Chemical Engineering Science, submitted. (Internet Publication Date: April 28, 2004.)			
		102. R. L. Mills, "Exact Classical Quantum Mechanical Solutions for One- through Twenty-Electron Atoms," Phys. Essays, Vol. 18, No. 3 (2005), 321–361. (Internet Publication Date: April 22, 2004.)			
		101. Mills et al. "Energetic Catalyst-Hydrogen Plasma Reaction as a Potential New Energy Source," Division of Fuel Chemistry, Session: Chemistry of Solid, Liquid, and Gaseous Fuels, 227th American Chemical Society National Meeting, March 28-April 1, 2004, Anaheim, CA.			
		100. Mills et al., "Highly Stable Amorphous Silicon Hydride from a Helium Plasma Reaction," Materials Chemistry and Physics, 94/2-3, (2005), pp. 298-307. (Internet Publication Date: Nov. 17, 2003.)			
		99. Mills et al., "Spectral Identification of H <sub>2</sub> (1/2)," submitted.			
		98. R. L. Mills, Y. Lu, J. He, M. Nansteel, P. Ray, X. Chen, A. Voigt, B. Dhandapani, "Spectral Identification of New States of Hydrogen," New Journal of Chemistry, submitted. (Internet Publication Date: Nov. 18, 2003.)			
		97. Mills et al., "Evidence of an Energy Transfer Reaction Between Atomic Hydrogen and Argon II or Helium II as the Source of Excessively Hot H Atoms in RF Plasmas," Journal of Plasma Physics, Vol. 72, Issue 4, (2008), pp. 469-484. (Internet Publication Date: Sept. 26, 2003.)			
Examiner Signature	/Stephen Kalafut/		Date Considered	12/06/2007	

Substitute for form 1449B/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet	25	of	<del>25</del>	42	Attorney Docket Number
-------	----	----	---------------	----	------------------------

**Complete If Known**

Application Number	09/362,693
Filing Date	07/29/1999
First Named Inventor	Mills
Group Art Unit	1745
Examiner Name	Kalafut

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T <sup>2</sup>
		96. Mills et al., "Evidence of the Production of Hot Hydrogen Atoms in RF Plasmas by Catalytic Reactions Between Hydrogen and Oxygen Species," J. Plasma Phys., submitted. (Internet Publication Date: Sept. 12, 2003.)			
		95. Mills et al., "Excessive Balmer $\alpha$ Line Broadening of Water-Vapor Capacitively-Coupled RF Discharge Plasmas," IEEE Transactions on Plasma Science, submitted. (Internet Publication Date: Aug. 18, 2003.)			
		94. Mills, "The Nature of the Chemical Bond Revisited and an Alternative Maxwellian Approach," Physics Essays, Vol. 17, (2004), pp. 342-389. (Internet Publication Date: Aug. 6, 2003.)			
		93. Mills et al., "Energetic Catalyst-Hydrogen Plasma Reaction Forms a New State of Hydrogen," Doklady Chemistry, submitted.			
		92. Mills et al., "Energetic Catalyst-Hydrogen Plasma Reaction as a Potential New Energy Source," Central European Journal of Physics, submitted. (Internet Publication Date: June 6, 2003.)			
		91. R. Mills, P. Ray, "New H I Laser Medium Based on Novel Energetic Plasma of Atomic Hydrogen and Certain Group I Catalysts," J. Plasma Physics, submitted.			
		90. Mills et al., "Characterization of Energetic Catalyst-Hydrogen Plasma Reaction as a Potential New Energy Source," Am. Chem. Soc. Div. Fuel Chem. Prepr., Vol. 48, No. 2, (2003).			
		89. Mills et al., "Hydrogen Plasmas Generated Using Certain Group I Catalysts Show Stationary Inverted Lyman Populations and Free-Free and Bound-Free Emission of Lower-Energy State Hydride," Fizika A, submitted.			
		88. Mills et al., "Role of Atomic Hydrogen Density and Energy in Low Power CVD Synthesis of Diamond Films," Thin Solid Films, 478, (2005), pp. 77-90. (Internet Publication Date: Dec. 22, 2003.)			
		87. Mills et al., "Liquid-Nitrogen-Condensable Molecular Hydrogen Gas Isolated from a Catalytic Plasma Reaction," J. Phys. Chem. B, submitted.			
Examiner Signature	/Stephen Kalafut/			Date Considered	12/06/2007

Substitute for form 1449B/PTO				<b>Complete if Known</b>	
				Application Number	09/362,693
				Filing Date	07/29/1999
				First Named Inventor	Mills
				Group Art Unit	1745
				Examiner Name	Kalafut
Sheet	26	of	<del>42</del>	Attorney Docket Number	

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T <sup>2</sup>
		86. Mills et al., "Novel Spectral Series from Helium-Hydrogen Evenson Microwave Cavity Plasmas that Matched Fractional-Principal-Quantum-Energy-Level Atomic and Molecular Hydrogen," European Journal of Physics, submitted. (Internet Publication Date: April 24, 2003.)			
		85. Mills et al., "Highly Pumped Inverted Balmer and Lyman Populations," New Journal of Physics, submitted.			
		84. Mills et al., "Comparison of Balmer $\alpha$ Line Broadening and Power Balances of Helium-Hydrogen Plasma Sources," Braz. J. Phys., submitted. (Internet Publication Date: March 12, 2003.)			
		83. Mills et al., "Comparison of Water-Plasma Sources of Stationary Inverted Balmer and Lyman Populations for a CW NI Laser," J. Appl. Spectroscopy, in preparation.			
		82. Mills et al., "Synthesis and Characterization of Diamond Films from MPCVD of an Energetic Argon-Hydrogen Plasma and Methane," Journal of Materials Science, submitted. (Internet Publication Date: May 7, 2003.)			
		81. R. Mills, et. al., "Spectroscopic and NMR Identification of Novel Hydride Ions in Fractional Quantum Energy States Formed by an Exothermic Reaction of Atomic Hydrogen with Certain Catalysts," European Physical Journal: Applied Physics, 28, (2004), pp. 83-104. (Internet Publication Date: Feb. 21, 2002.)			
		80. Mills, "The Fallacy of Feynman's Argument on the Stability of the Hydrogen Atom According to Quantum Mechanics," Annales De La Fundation Louis De Broglie, Vol. 30, No. 2, (2005), pp. 129-151. (Internet Publication Date: Jan. 27, 2005.)			
		79. Mills et al., "Comparison of Catalysts and Microwave Plasma Sources of Vibrational Spectral Emission of Fractional-Rydberg-State Hydrogen Molecular Ion," Canadian Journal of Physics, submitted.			
		78. Mills et al., "Vibrational Spectral Emission of Fractional-Principal-Quantum-Energy-Level Molecular Hydrogen", J. of the Physical Society of Japan, submitted. (Internet Publication Date: Sept. 9, 2002.)			
		77. Mills et al., "Water Bath Calorimetric Study of Excess Heat in 'Resonant Transfer' Plasmas," Journal of Applied Physics, Vol. 96, No. 6, (2004), pp. 3095-3102. (Internet Publication Date: June 16, 2003.)			
Examiner Signature	/Stephen Kalafut/			Date Considered	12/06/2007

Substitute for form 1449B/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet	27	of	<del>37</del> 42	Attorney Docket Number
-------	----	----	------------------	------------------------

**Complete if Known**

Application Number	09/362,693
Filing Date	07/29/1999
First Named Inventor	Mills
Group Art Unit	1745
Examiner Name	Kalafut

**OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		76. Mills et al., "Comparison of Catalysts and Microwave Plasma Sources of Spectral Emission of Fractional-Principal-Quantum-Energy-Level Atomic and Molecular Hydrogen," Journal of Applied Spectroscopy, submitted. (Internet Publication Date: Feb. 12, 2002.)	
		75. Mills et al., "Novel Liquid-Nitrogen-Condensable Molecular Hydrogen Gas," Acta Physica Polonica A, submitted. (Internet Publication Date: Oct. 29, 2002.)	
		74. Mills et al., "Spectroscopic Study of Unique Line Broadening and Inversion in Low Pressure Microwave Generated Water Plasmas," Journal of Plasma Physics, Vol. 71, Part 6, (2005), pp. 877-78. (Internet Publication Date: June 18, 2003.)	
		73. Mills et al., "Energetic Helium-Hydrogen Plasma Reaction," AIAA Journal, submitted. (Internet Publication Date: July 26, 2002.)	
		72. R. L. Mills, M. Nansteel, P. C. Ray, "Bright Hydrogen Light and Power Source due to a Resonant Energy Transfer with Strontium and Argon Ions," Vacuum, submitted.	
		71. Mills et al., "Power Source Based on Helium-Plasma Catalysis of Atomic Hydrogen to Fractional Rydberg States," Contributions to Plasma Physics, submitted.	
		70. Mills et al., "Comparison of Catalysts and Plasma Sources of Vibrational Spectral Emission of Fractional-Rydberg-State Hydrogen Molecular Ion," The European Journal of Applied Physics, submitted. (Internet Publication Date: Sept. 2, 2002.)	
		69. Mills et al., "Spectroscopic Characterization of the Atomic Hydrogen Energies and Densities and Carbon Species During Helium-Hydrogen-Methane Plasma CVD Synthesis of Diamond Films," Chemistry of Materials, Vol. 15, (2003), pp. 1313-1321. (Internet Publication Date: Dec. 31, 2002.)	
		68. Mills, et. al., "Stationary Inverted Balmer and Lyman Populations for a CVI HI Water-Plasma Laser," IEEE Transactions on Plasma Science, submitted. (Internet Publication Date: August 16, 2002)	
		67. Mills et al., "Extreme Ultraviolet Spectroscopy of Helium-Hydrogen Plasma," J. Phys. D, Vol. 36, (2003), pp. 1535-1542. (Internet Publication Date: July 17, 2002.)	
Examiner Signature	/Stephen Kalafut/		Date Considered
			12/06/2007

Substitute for form 1449B/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet	28	of	42	Attorney Docket Number
-------	----	----	----	------------------------

**Complete If Known**

Application Number	09/362,693
Filing Date	07/29/1999
First Named Inventor	Mills
Group Art Unit	1745
Examiner Name	Kalafut

**OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		66. Mills et al., "Spectroscopic Evidence for a Water-Plasma Laser," Europhysics Letters, submitted. (Internet Publication Date: Sept. 19, 2002.)	
		65. Mills et al., "Spectroscopic Evidence for Highly Pumped Balmer and Lyman Populations in a Water-Plasma," J. of Applied Physics, submitted. (Internet Publication Date: Sept. 18, 2002.)	
		64. Mills et al., "Low Power MPCVD of Diamond Films on Silicon Substrates," Journal of Vacuum Science & Technology A, submitted. (Internet Publication Date: June 26, 2002.)	
		63. Mills et al., "Plasma Power Source Based on a Catalytic Reaction of Atomic Hydrogen Measured by Water Bath Calorimetry," Thermochemical Acta, Vol. 406, Issue 1–2, (2003), pp. 35–53. (Internet Publication Date: June 25, 2002.)	
		62. Mills et al., "Synthesis and Spectroscopic Identification of Lithium Chloro Hydride," Inorganica Chimica Acta, submitted.	
		61. Mills et al., "Highly Stable Amorphous Silicon Hydride," Solar Energy Materials & Solar Cells, Vol. 80, No. 1, (2003), pp. 1–20. (Internet Publication Date: April 15, 2002.)	
		60. Mills et al., "Synthesis of HDLC Films from Solid Carbon," Journal of Materials Science, Vol. 39, (2004), pp. 3309–3318. (Internet Publication Date: May 3, 2002.)	
		59. Mills et al., "The Potential for a Hydrogen Water-Plasma Laser," Applied Physics Letters, Vol. 82, No. 11, (2003), pp. 1679–1681. (Internet Publication Date: July 11, 2002.)	
		58. Mills, "Classical Quantum Mechanics," Physics Essays, Vol. 16, (2003), pp. 433–498. (Internet Publication Date: May 23, 2002.)	
		57. Mills, et. al. "Spectroscopic Characterization of Stationary Inverted Lyman Populations and Free-Free and Bound-Free Emission of Lower-Energy State Hydride Ion Formed by a Catalytic Reaction of Atomic Hydrogen and Certain Group I Catalysts, J. of Quantitative Spectroscopy and Radiative Transfer," No. 39, sciencedirect.com, April 17, 2003.	
Examiner Signature	/Stephen Kalafut/		Date Considered 12/06/2007

Substitute for form 1449B/PTO				<b>Complete If Known</b>	
				Application Number	09/362,693
				Filing Date	07/29/1999
				First Named Inventor	Mills
				Group Art Unit	1745
				Examiner Name	Kalafut
Sheet	29	of	42	Attorney Docket Number	

**OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		56. R. M. Mayo, R. Mills, "Direct Plasmodynamic Conversion of Plasma Thermal Power to Electricity for Microdistributed Power Applications," 40th Annual Power Sources Conference, Cherry Hill, NJ, June 10-13, (2002), pp. 1-4. (Internet Publication Date: March 28, 2002.)	
		55. Mills et al., "Chemically-Generated Stationary Inverted Lyman Population for a CW HI Laser," European J of Phys. D, submitted. (Internet Publication Date: April 22, 2002.)	
		54. Mills et al., "Stationary Inverted Lyman Population Formed from Incandescently Heated Hydrogen Gas with Certain Catalysts," J. Phys. D, Applied Physics, Vol. 36, (2003), pp. 1504-1509. (Internet Publication Date: March 20, 2002) also submitted to Chem. Phys. Letts.	
		53. Mills, "A Maxwellian Approach to Quantum Mechanics Explains the Nature of Free Electrons in Superfluid Helium," Braz. J. Phys, submitted. (Internet Publication Date: June 4, 2002)	
		52. Mills et al., "Bright Hydrogen-Light Source due to a Resonant Energy Transfer with Strontium and Argon Ions," New Journal of Physics, Vol. 4, (2002), pp. 70.1-70.28. (Internet Publication Date: October, 2002)	
		51. Mills et al., "CW HI Laser Based on a Stationary Inverted Lyman Population Formed from Incandescently Heated Hydrogen Gas with Certain Group I Catalysts," IEEE Transactions on Plasma Science, Vol. 31, No. 2, (2003), pp. 236-247. (Internet Publication Date: Feb. 4, 2002)	
		50. Mills et al., "Spectral Emission of Fractional-Principal-Quantum-Energy-Level Atomic and Molecular Hydrogen," Vibrational Spectroscopy, Vol. 31, No. 2, (2003), pp. 195-213.	
		49. Mills et al., "Comparison of Excessive Balmer Line Broadening of Inductively and Capacitively Coupled RF-Microwave, and Glow Discharge Hydrogen Plasmas with Certain Catalysts," IEEE Transactions on Plasma Science, Vol. 31, No. 3, (2003), pp. 338-355. (Internet Publication Date: Sept. 17, 2002.)	
		48. Mills et al., "Direct Plasmodynamic Conversion of Plasma Thermal Power to Electricity," IEEE Transactions on Plasma Science, October, (2002), Vol. 30, No. 5, pp. 2066-2073. (Internet Publication Date: March 26, 2002.)	
		47. H. Conrads, R. Mills, Th. Wrubel, "Emission in the Deep Vacuum Ultraviolet from a Plasma Formed by Incandescently Heating Hydrogen Gas with Trace Amounts of Potassium Carbonate," Plasma Sources Science and Technology, Vol. 12, (2003), pp. 389.	
Examiner Signature	/Stephen Kalafut/		Date Considered 12/06/2007

Substitute for form 1449B/PTO				<b>Complete If Known</b>	
				Application Number	09/362,693
				Filing Date	07/29/1999
				First Named Inventor	Mills
				Group Art Unit	1745
				Examiner Name	Kalafut
Sheet	30	of	42	Attorney Docket Number	

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS					
Examinee r Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T <sup>2</sup>
		46. Mills et al., "Emission in the Deep Vacuum Ultraviolet from a Plasma Form by Incandescently Heating Hydrogen Gas with Trace Amounts of Potassium Carbonate," <i>Plasma Sources Science and Technology</i> , Vol. 12, (2003), pp. 389–395.			
		45. Mills et al., "Synthesis and Characterization of a Highly Stable Amorphous Silicon Hydride as the Product of a Catalytic Helium-Hydrogen Plasma Reaction," <i>Int. J. Hydrogen Energy</i> , Vol. 28, No. 12, (2003), pp. 1401–1424. (Internet Publication Date: April 15, 2002.)			
		44. Mills, et. al. "Synthesis and Characterization of Lithium Chloro Hydride", <i>International Journal of Hydrogen Energy</i> , submitted. (Internet Publication Date: January 7, 2002.)			
		43. Mills et al. Substantial Changes in the Characteristics of a Microwave Plasma Due to Combining Argon and Hydrogen," <i>New Journal of Physics</i> , www.njp.org, Vol. 4, (2002), pp. 22.1–22.17. (Internet Publication Date: Dec. 27, 2001.)			
		42. Mills et al., "A Comprehensive Study of Spectra of the Bound-Free Hyperfine Levels of Novel Hydride Ion , Hydrogen, Nitrogen and Air," <i>Int. J. Hydrogen Energy</i> , Vol. 28, No. 8, (2003), pp. 825–871. (Internet Publication Date: Nov. 14, 2001.)			
		41. Mills et al., "Novel Alkali and Alkaline Earth Hydrides for High Voltage and High Energy Density Batteries," <i>Proceedings of the 17th Annual Battery Conference on Applications and Advances</i> , California State University, Long Beach, CA, (January 15–18, 2002), pp. 1–6. (Internet Publication Date: Nov. 14, 2001.)			
		40. Mills et al., "On the Potential of Direct and MHD Conversion of Power from a Novel Plasma Source to Electricity for Microdistributed Power Applications," <i>IEEE Transactions on Plasma Science</i> , August, (2002) Vol. 30, No. 4, pp. 1568–1578. (Internet Publication Date: Nov. 12, 2001.)			
		39. Mills et al., "Stationary Inverted Lyman Populations and Free-Free and Bound-Free Emission of Lower-Energy State Hydride Ion Formed by an Exothermic Catalytic Reaction of Atomic Hydrogen and Certain Group I Catalysts," <i>J. Phys. Chem. A</i> , submitted. (Internet Publication Date: Nov. 13, 2001.)			
		38. Mills et al., "Highly Stable Novel Inorganic Hydrides from Aqueous Electrolysis and Plasma Electrolysis," <i>Electrochimica Acta</i> , Vol. 47, No. 24, (2002), pp. 3909–3926. (Internet Publication Date: June 13, 2002.)			
		37. Mills et al., "Comparison of Excessive Balmer Line Broadening of Glow Discharge and Microwave Hydrogen Plasmas with Certain Catalysts," <i>J. of Applied Physics</i> , (2002), Vol. 92, No. 12, pp. 7008–7022. (Internet Publication Date: Oct. 9, 2002.)			
Examiner Signature	/Stephen Kalafut/			Date Considered	12/06/2007

Substitute for form 1449B/PTO				Complete if Known	
				Application Number	09/362,693
				Filing Date	07/29/1999
				First Named Inventor	Mills
				Group Art Unit	1745
				Examiner Name	Kalafut
Sheet	31	of	<del>42</del>	Attorney Docket Number	

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T <sup>2</sup>
		36. Mills et al., "Emission Spectroscopic Identification of Fractional Rydberg States of Atomic Hydrogen Formed by a Catalytic Helium-Hydrogen Plasma Reaction," Vacuum, submitted. (Internet Publication Date: Oct. 9, 2001.)			
		35. Mills et al., "New Power Source from Fractional Rydberg States of Atomic Hydrogen," Current Appl. Phys., submitted. (Internet Publication Date: Oct. 9, 2001.)			
		34. Mills et al., "Spectroscopic Identification of Transitions of Fractional Rydberg States of Atomic Hydrogen," J. of Quantitative Spectroscopy and Radiative Transfer, in press. (Internet Publication Date: Oct. 9, 2001.)			
		33. Mills et al., "New Power Source from Fractional Quantum Energy Levels of Atomic Hydrogen that Surpasses Internal Combustion," J Mol. Struct., Vol. 643, No. 1-3, (2002), pp. 43-54. (Internet Publication Date: Oct. 10, 2001.)			
		32. Mills et al., "Spectroscopic Identification of a Novel Catalytic Reaction of Rubidium Ion with Atomic Hydrogen and the Hydride Ion Product," Int. J. Hydrogen Energy, Vol. 27, No. 9, (2002), pp. 927-935. (Internet Publication Date: Sept. 19, 2001.)			
		31. Mills et al., "Measurement of Energy Balances of Noble Gas-Hydrogen Discharge Plasmas Using Calvet Calorimetry," Int. J. Hydrogen Energy, Vol. 27, No. 9, (2002), pp. 967-978. (Internet Publication Date: Sept. 14, 2001.)			
		30. Mills et al., "Measurement of Hydrogen Balmer Line Broadening and Thermal Power Balances of Noble Gas-Hydrogen Discharge Plasmas," Int. J. Hydrogen Energy, Vol. 27, No. 6, (2002), pp. 671-685. (Internet Publication Date: Aug. 22, 2001.)			
		29. Mills et al., "Vibrational Spectral Emission of Fractional-Principal-Quantum-Energy-Level Hydrogen Molecular Ion," Int. J. Hydrogen Energy, Vol. 27, No. 5, (2002), pp. 533-564. (Internet Publication Date: July 19, 2001.)			
		28. Mills et al., "Spectral Emission of Fractional Quantum Energy Levels of Atomic Hydrogen from a Helium-Hydrogen Plasma and the Implications for Dark Matter," Int. J. Hydrogen Energy, (2002), Vol. 27, No. 3, pp. 301-322. (Internet Publication Date: Aug. 1, 2001.)			
		27. Mills, et. al. "Spectroscopic Identification of a Novel Catalytic Reaction of Potassium and Atomic Hydrogen and the Hydride Ion Product", International Journal of Hydrogen Energy, Vol. 27, No. 2, (2002), pp. 183-192. (Internet Publication Date: January 11, 2002)			
Examiner Signature	/Stephen Kalafut/			Date Considered	12/06/2007

Substitute for form 1449B/PTO				Complete If Known	
				Application Number	09/362,693
				Filing Date	07/29/1999
				First Named Inventor	Mills
				Group Art Unit	1745
				Examiner Name	Kalafut
Sheet	32	of	37	42	Attorney Docket Number

## OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		26. Mills, "BlackLight Power Technology-A New Clean Hydrogen Energy Source with the Potential for Direct Conversion to Electricity," Proceedings of the National Hydrogen Association, 12 th Annual U.S. Hydrogen Meeting and Exposition, Hydrogen: The Common Thread, The Washington Hilton and Towers, Washington, DC, (March 6-8, 2001) pp. 621-627	
		25. Mills, et. al. "Minimum heat of formation of potassium Iodo hydride." <i>International Journal of Hydrogen Energy</i> , Vol 26, 2001, pp. 1199-1208. (Internet Publication Date: March 23, 2001)	
		24. Mills, et al. "Stereoscopic Identification of a Novel Catalytic Reaction of Atomic Hydrogen and the hydride ion product." <i>International Journal of Hydrogen Energy</i> , Vol. 26. 2001. pp.1041-1058. (Internet Publication Date: March 23, 2001.)	
		23. Mills et al., "Optically Measured Power Balances of Glow Discharges of Mixtures of Argon, Hydrogen, and Potassium, Rubidium, Cesium, or Strontium Vapor," <i>Int. J. Hydrogen Energy</i> , Vol. 27, No. 6, (2002), pp. 651-670. (Internet Publication Date: July 20, 2001.)	
		22. Mills, "The Grand Unified Theory of Classical Quantum Mechanics," Global Foundation, Inc. Orbis Scientiae entitled The Role of Attractive and Repulsive Gravitational Forces in Cosmic Acceleration of Particles The Origin of the Cosmic Gamma Ray Bursts, (29th Conference on High Energy Physics and Cosmology Since 1964) Dr. Behram N. Kursunoglu,	
		21. Mills, "The Grand Unified Theory of Classical Quantum Mechanics," <i>Int. J. Hydrogen Energy</i> , Vol. 27, No. 5, (2002), pp. 565-590. (Internet Publication Date: Sept. 17, 2001.)	
		20. Mills et al., "Argon-Hydrogen-Strontium Discharge Light Source," <i>IEEE Transactions on Plasma Science</i> , Vol. 30, No. 2, (2002), pp. 639-653. (Internet Publication Date: Dec. 7, 2000.)	
		19. Mills et al., "Identification of Compounds Containing Novel Hydride Ions by Nuclear Magnetic Resonance Spectroscopy," <i>Int. J. Hydrogen Energy</i> , Vol. 26, No. 9, (2001), pp. 965-979. (Internet Publication Date: March 22, 2001.)	
		18. Mills, "Blacklight Power Technology-A New Clean Energy Source with the Potential for Direct Conversion to Electricity," Global Foundation International Conference on "Global Warming and Energy Policy," Dr. Behram N. Kursunoglu, Chairman, Fort Lauderdale, FL, November 26-28, 2000, Kluwer Academic/Plenum Publishers, New York, pp. 187-202.	
		17. Mills, "The Nature of Free Electrons in Superfluid Helium—a Test of Quantum Mechanics and a Basis to Review its Foundations and Make a Comparison to Classical Theory," <i>Int. J. Hydrogen Energy</i> , Vol. 26, No. 10, (2001), pp. 1059-1096. (Internet Publication Date: Dec. 11, 2000.)	
Examiner Signature	/Stephen Kalafut/		Date Considered 12/06/2007

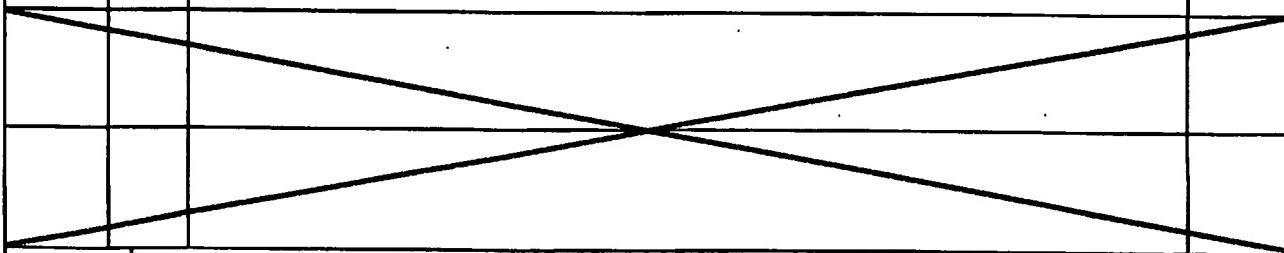
Substitute for form 1449B/PTO				<i>Complete if Known</i>	
				Application Number	09/362,693
				Filing Date	07/29/1999
				First Named Inventor	Mills
				Group Art Unit	1745
				Examiner Name	Kalafut
Sheet	33	of	<del>42</del>	Attorney Docket Number	

OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T <sup>2</sup>
		16. Mills et al., "Excessively Bright Hydrogen-Strontium Plasma Light Source Due to Energy Resonance of Strontium with Hydrogen." J. of Plasma Physics, Vol. 69, (2003), pp. 131-158. (Internet Publication Date: Aug. 27, 2001.)			
		15. Mills et al., "Observation of Extreme Ultraviolet Hydrogen Emission from Incandescently Heated Hydrogen Gas with Certain Catalysts," Int. J. Hydrogen Energy, Vol. 25, (2000), pp. 919-943. (Internet Publication Date: June 27, 2000.)			
		14. R. Mills, "Observation of Extreme Ultraviolet Emission from Hydrogen-Kr Plasmas Produced by a Hollow Cathode Discharge," Int. J. Hydrogen Energy, Vol. 26, No. 6, (2001), pp. 579-592. (Internet Publication Date: July 10, 2000.)			
		13. Mills, "Temporal Behavior of Light-Emission in the Visible Spectral Range from a Ti-K <sub>2</sub> CO <sub>3</sub> -H-Cell," Int. J. Hydrogen Energy, Vol. 26, No. 4, (2001), pp. 327-332. (Internet Publication Date: July 10, 2000.)			
		12. Mills et al., "Formation of a Hydrogen Plasma from an Incandescently Heated Hydrogen-Catalyst Gas Mixture with an Anomalous Afterglow Duration," Int. J. Hydrogen Energy, Vol. 26, No. 7, July, (2001), pp. 749-762. (Internet Publication Date: June 28, 2000.)			
		11. Mills et al., "Observation of Extreme Ultraviolet Hydrogen Emission from Incandescently Heated Hydrogen Gas with Strontium that Produced an Anomalous Optically Measured Power Balance," Int. J. Hydrogen Energy, Vol. 26, No. 4, (2001), pp. 309-326. (Internet Publication Date: June 27, 2000.)			
		10. Mills et al., "Synthesis and Characterization of Potassium Iodo Hydride," Int. J. of Hydrogen Energy, Vol. 25, Issue 12, December, (2000), pp. 1185-1203. (Internet Publication Date: Nov. 12, 2001.)			
		9. Mills. "Novel inorganic hydride." International Journal of Hydrogen Energy, Vol 25, 2000, pp. 669-683. (Internet Publication Date: June 28, 2000)			
		8. Mills et al., "Synthesis and Characterization of Novel Hydride Compounds," Int. J. of Hydrogen Energy, Vol. 26, No. 4, (2001), pp. 339-367. (Internet Publication Date: June 13, 2001.)			
		7. R. Mills, "Highly Stable Novel Inorganic Hydrides," Journal of New Materials for Electrochemical Systems, Vol. 6, (2003), pp. 45-54. (Internet Publication Date: Nov. 20, 2001.)			
Examiner Signature	/Stephen Kalafut/			Date Considered	12/06/2007

Substitute for form 1449B/PTO				<b>Complete if Known</b>	
				Application Number	09/362,693
				Filing Date	07/29/1999
				First Named Inventor	Mills
				Group Art Unit	1745
				Examiner Name	Kalafut
Sheet	34	of	<i>[Signature]</i> 42	Attorney Docket Number	

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T <sup>2</sup>
		<del>1. R. Mills, "Novel Hydrogen Compounds from a Potassium Carbonate Electrolytic Cell," Fusion Technology, Vol. 37, No. 2, March, (2000), pp. 157-182. (Internet Publication Date: June 26, 2000.)</del>			
		<del>2. Mills, "The Hydrogen Atom Revisited," Int. J. of Hydrogen Energy, Vol. 25, Issue 12, December, (2000), pp. 1171-1183. (Internet Publication Date: June 27, 2000.)</del>			
		<del>3. Mills et al., "Fractional Quantum Energy Levels of Hydrogen," Fusion Technology, Vol. 28, No. 4, November, (1995), pp. 1697-1719. (Internet Publication Date: Nov. 1, 2001.)</del>			
		<del>4. Mills et al., "Dihydride Molecule Identification," Fusion Technology, Vol. 25, 103-110 (Jan. 1994). (Internet Publication Date: April 11, 2001.).</del>			
/SK/		Mills Technologies. "1KW Heat Exchanger System." <i>Thermacore, Inc.</i> , Oct 11 1991, pp. 1-6			
		<del>Mills Technologies. "1KW Heat Exchanger System." <i>Thermacore, Inc.</i>, April 17, 1992, pp. 1-6</del>			
/SK/		Mills, "Classical Quantum Mechanics." <i>Physica Scripta</i> , submitted.  (no date)			
		<del>Mills, "The Grand Unified Theory of Classical Quantum Mechanics," (2001), Distributed by Amazon.Com.</del>			
/SK/		Mills, et. al. "Excess Heat Production...Cold Fusion." <i>Fusion Technology</i> , Vol 20, Feb 1991, pp. 65-81.			
		<del>Mills, et. al. <i>Fusion Technol.</i> Vol.20, 85 (1991). Internet Publication Date 4/11/01</del>			
Examiner Signature	/Stephen Kalafut/		Date Considered	12/06/2007	

Substitute for form 1449B/PTO				<b>Complete If Known</b>	
				Application Number	09/362,693
				Filing Date	07/29/1999
				First Named Inventor	Mills
				Group Art Unit	1745
				Examiner Name	Kalafut
Sheet	35	of	42	Attorney Docket Number	

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T <sup>2</sup>
/SK/		Mills, "Author's response 'A possible trick of Hydride atom'," <i>International Journal of Hydrogen Energy</i> , Vol 26, 2001, p. 1225. (no month)			
/SK/		Mills, "BLACKLIGHT POWER TECHNOLOGY: A New Clean Energy Source with the Potential for Direct Conversion to Electricity," <i>International Conference on Global Warming and Energy Policy</i> , Ft. Lauderdale, Florida, November 26-28, 2000. Internet Publication 1/19/01			
/SK/		Mills, "Hydro catalysis Power Technology," <i>Statement of Dr. Randell L. Mills</i> , May, 1993.			
/SK/		Mills, "The Grand Unified Theory of Classical Quantum Mechanics," pp. 1-9 (no date)			
		Mills, "Unification of Spacetime, the Forces, Matter, Energy, Hydro catalysis Power Corporation," 1992, pp. 53-84.			
		Mills, "Author's response to 'Hydride atom: novel chemistry or invalid physics?'," <i>International Journal of Hydrogen Energy</i> , Vol 26, 2001, pp. 1233.			
/SK/		Mills, "Author's response to 'Hydrido theory- a proposed amendment'," <i>International Journal of Hydrogen Energy</i> , Vol 26, 2001, pp. 1229-1231. (no month)			
/SK/		Mills, "Power Spectrum of the Cosmic Microwave Background" <i>BlackLight Power, Inc.</i> 2001. (no month)			
					
Examiner Signature	/Stephen Kalafut/		Date Considered	12/06/2007	

<p>Substitute for form 1449A/PTO</p> <p><b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b></p> <p>(use as many sheets as necessary)</p>		<i>Complete if Known</i>	
		Application Number	09/362,693
		Filing Date	07/29/99
		First Named Inventor	Mills
		Group Art Unit	1754      1745
		Examiner Name	Langel      Kalafut
Sheet <u>1</u>	of <u>2</u>	Attorney Docket Number	
		62-226-9A2	

## U.S. PATENT DOCUMENTS

## FOREIGN PATENT DOCUMENTS

**\*EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to the Examiner.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3) <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

<p>Substitute for form 1449B/PTO</p> <p><b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b></p> <p>(use as many sheets as necessary)</p>		<i>Complete if Known</i>	
		Application Number	09/362,693
		Filing Date	July 29, 1999
		First Named Inventor	Mills
		Group Art Unit	1754      1745
		Examiner Name	Langer      Kalafut
Sheet  37	of  42	Attorney Docket Number 62-226-9A2	

#### OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.'	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		Barton, et al, "Investigating Radio Frequency Plasmas Used for the modification of Polymer Surfaces." <i>J. Phys. Chem. B</i> , Vol 103, 1999, pp. 4423-4430. (cited on page 6)	
		Bogaerts, et al. "Effects of adding hydrogen to an argon glow discharge: overview of relevant processes and some qualitative explanations." <i>Journal of Analytical Atomic Spectrometry</i> , March 2000. (cited on page 7)	
		Dery, et al. "Effect of Dielectric Constant, Cavities in Series and Cavities in Parallel on the Product Distribution of the Oligomerization of Methane via Microwave Plasmas." <i>J. Phys. Chem.</i> , Vol 100, 1996, pp. 17866-17872. (cited on page 9)	
		Roberts, et al. "Hydrogen Balmer-alpha line shapes for hydrogen-argon mixtures in a low-pressure rf discharge." <i>J. Appl. Phys.</i> , Vol 74, No 11, December 1993. (cited on page 15)	
		Videnevic, et al. "Spectroscopic investigations of a cathode fall region of the Grimm type glow discharge." <i>Spectrochimica Acta Part B</i> , Vol 51, 1996, pp. 1707-1731. (cited on page 16)	

Examiner · Signature	/Stephen Kalafut/	Date Considered	12/06/2007
-------------------------	-------------------	--------------------	------------

**\*EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449B/PTO				Complete if Known	
				Application Number	09/362,693
				Filing Date	07/29/1999
				First Named Inventor	Mills
				Group Art Unit	4754 1745
				Examiner Name	Langel Kalafut
Sheet	# 38	of	# 42	Attorney Docket Number	
				62-226-9A2	

## OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		<del>Radovanev, et. al. "Ion Kinetic Energy Distributions and Balmer <math>\alpha</math> Excitation in Ar H<math>^2</math> Radio-Frequency Discharges" J. Appl. Phys. Vol. 78, No. 2, pp. 746-756, July 1995.</del>	
		<del>Thorne, et. al., "Recombination during the Electrolysis of Light Water in 0.6 M K<sub>2</sub>CO<sub>3</sub>, Can It Account for the Reports of Excess Heat?" Departments of Physics and Chemistry, Brigham Young University, June 1993.</del>	
		<del>Beiser, A. Concepts of Modern Physics, Fourth Edition, McGraw Hill Book Company, New York, 1978, p. 407.</del>	
		<del>Boniface, et. al. "Calorimetry for a Ni/K<sub>2</sub>CO<sub>3</sub> Cell." AEOL Research, June 1994.</del>	
		<del>Bradford. "A Calorimetric Investigation of the Reaction of Hydrogen with Sample PSU #1." A Confidential Report submitted to Hydrocatalysis Power Corporation, September 1994.</del>	
		<del>Clark, et. al. "Excess Energy Cell Final Report." April 1995.</del>	
		<del>Evans, et. al. "Time-of-Flight Secondary Ion Mass Spectroscopy (TOF-SIMS) Surface Analysis Report." CE &amp; A Number 40150, March 1994.</del>	
		<del>Evans, et. al. "XPS/ESCA Results." CE &amp; A Number 44545, Nov 1994.</del>	
		<del>Garnett, et. al. "Anomalous Heat From Atomic Hydrogen in Contact with Potassium Carbonate." Thermacore, Inc.</del>	
		<del>Haus. "On the radiation from point charges." American Journal of Physics, Vol 54, No 12, December 1986. Pp. 1126-1129.</del>	
		<del>Jansson. "Hydrocatalysis: A New Energy Paradigm for the 21<sup>st</sup> Century." A Thesis, Master of Science in Engineering Degree in the Graduate Division of Rowan University, May 1997.</del>	

Examiner Signature	/Stephen Kalafut/	Date Considered	12/06/2007
--------------------	-------------------	-----------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

(All crossed-out articles are duplicate cites.)

Substitute for form 1449B/PTO				Complete if Known	
				Application Number	09/362,693
				Filing Date	07/29/1999
				First Named Inventor	Mills
				Group Art Unit	4754
				Examiner Name	Langet
Sheet	39	of	<input checked="" type="checkbox"/> 42	Attorney Docket Number	62-226-9A2

OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			
		<del>Jacox, et. al. "INEL XPG Report." Idaho National Engineering Laboratory, EG &amp; G Idaho, Inc., Nov 1993.</del>			
		<del>Karplus and Porter. Atoms and Molecules: An Introduction for Students of Physical Chemistry, The Benjamin/Cummings Publishing Company, Menlo Park, California, 1970, p. 567.</del>			
		<del>Kline-Anderson, Inc. "Review of Schedule and Resource Requirements to Develop a Hydrocatalysis Functional Prototype Unit." Final Report for Technology Insights, Oct 1996.</del>			
		<del>Kurtz, et. al. "Report on Calorimetric Investigations of Gas Phase Catalyzed Hydride Formation." Hydrocatalysis Power Corp. Report, December 1996.</del>			
		<del>Peterson. "Evaluation of Heat Production from Light Water Electrolysis Cell of Hydrocatalysis Power Corporation." Draft, Westinghouse STC, Feb 1994.</del>			
		<del>Phillips, et. al. "Additional Calorimetric Examples of Anomalous Heat From Physical Mixture of K/Carbon and PD/Carbon." Consulting Report, Jan 1996.</del>			
		<del>Technology Insights. "Draft: Hydrocatalysis Technical Assessment." PACIFICORP, Aug 1996.</del>			
		<del>Thermacore, Inc. "SBIR Phase I Nascent Hydrogen: An Energy Source." Final Report, March 1994.</del>			
		<del>Weisskopf, V.F. "Recent developments in the theory of the electron." Reviews of Modern Physics, Vol 21, No 2, 1949, pp. 305-315.</del>			
		<del>Durr, et. al. "Origin of quantum-mechanical complementarity probed by a 'which-way' experiment in an atom interferometer." Nature, Vol 395, September 3, 1998, pp. 33-37.</del>			

Examiner Signature	/Stephen Kalafut/	Date Considered	12/06/2007
--------------------	-------------------	-----------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

(All crossed-out articles are duplicate cites.)

Substitute for form 1449B/PTO				<i>Complete if Known</i>	
				Application Number	09/362,693
				Filing Date	07/29/1999
				First Named Inventor	Mills
				Group Art Unit	1754 1745
				Examiner Name	Langer Kalafut
Sheet	<input checked="" type="checkbox"/> 40	of	<input checked="" type="checkbox"/> 42	Attorney Docket Number	

OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T <sup>2</sup>
		<del>H. Conrads, R. Mills, Th. Wrubel, "Emission in the Deep Vacuum Ultraviolet from an Incandescently Driven Plasma in a Potassium Carbonate Cell", Plasma Sources Science and Technology, submitted.</del>			
		<del>R. L. Mills, P. Ray, "Stationary Inverted Lyman Population Formed from Incandescently Heated Hydrogen Gas with Certain Catalysts", Chem. Phys. Letts., submitted.</del>			
		<del>R. L. Mills, B. Dhandapani, J. He, "Synthesis and Characterization of a Highly Stable Amorphous Silicon Hydride", Int. J. Hydrogen Energy, submitted.</del>			
		<del>R. L. Mills, A. Voigt, B. Dhandapani, J. He, "Synthesis and Characterization of Lithium Chloro Hydride", Int. J. Hydrogen Energy, submitted.</del>			
		<del>R. L. Mills, P. Ray, "Substantial Changes in the Characteristics of a Microwave Plasma Due to Combining Argon and Hydrogen", New Journal of Physics, submitted.</del>			
		<del>R. L. Mills, P. Ray, "High Resolution Spectroscopic Observation of the Bound-Free Hyperfine Levels of a Novel Hydride Ion Corresponding to a Fractional Rydberg State of Atomic Hydrogen", Int. J. Hydrogen Energy, in press.</del>			
		<del>R. L. Mills, E. Dayakai, "Novel Alkali and Alkaline Earth Hydrides for High Voltage and High Energy Density Batteries", Proceedings of the 17<sup>th</sup> Annual Battery Conference on Applications and Advances, California State University, Long Beach, CA, (January 15-18, 2002), in press.</del>			
		<del>R. Mayo, R. Mills, M. Nansteel, "On the Potential of Direct and MHD Conversion of Power from a Novel Plasma Source to Electricity for Microdistributed Power Applications", IEEE Transactions on Plasma Science, submitted.</del>			

Examiner Signature	/Stephen Kalafut/	Date Considered	12/06/2007
--------------------	-------------------	-----------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449B/PTO				Complete if Known	
				Application Number	09/362,693
				Filing Date	07/29/1999
				First Named Inventor	Mills
				Group Art Unit	4754 1745
				Examiner Name	Langel Kalafut
Sheet	2	41	of	2	42
Attorney Docket Number					

OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T <sup>2</sup>
		R. Mills, P. Ray, J. Dong, M. Nansteel, W. Good, P. Jansson, B. Dhandapani, J. He, "Excessive Balmer Line Broadening, Power Balance, and Novel Hydride Ion Product of Plasma Formed from Incandescently Heated Hydrogen Gas with Certain Catalysts", Int. J. Hydrogen Energy, submitted			
		R. Mills, E. Dayalan, P. Ray, B. Dhandapani, J. He, "Highly Stable Novel Inorganic Hydrides from Aqueous Electrolysis and Plasma Electrolysis", Japanese Journal of Applied Physics, submitted			
		R. L. Mills, P. Ray, B. Dhandapani, J. He, "Comparison of Excessive Balmer Line Broadening of Glow Discharge and Microwave Hydrogen Plasmas with Certain Catalysts", Chem. Phys., submitted			
		R. L. Mills, P. Ray, B. Dhandapani, J. He, "Spectroscopic Identification of Fractional Rydberg States of Atomic Hydrogen", J. of Phys. Chem. (letter), submitted.			
		R. L. Mills, P. Ray, B. Dhandapani, M. Nansteel, X. Chen, J. He, "New Power Source from Fractional Rydberg States of Atomic Hydrogen", Chem. Phys. Letts., submitted.			
		R. L. Mills, P. Ray, B. Dhandapani, M. Nansteel, X. Chen, J. He, "Spectroscopic Identification of Transitions of Fractional Rydberg States of Atomic Hydrogen", Quantitative Spectroscopy and Energy Transfer, submitted.			
		R. L. Mills, P. Ray, B. Dhandapani, M. Nansteel, X. Chen, J. He, "New Power Source from Fractional Quantum Energy Levels of Atomic Hydrogen that Surpasses Internal Combustion", Spectrochimica Acta, Part A, submitted.			
		R. L. Mills, P. Ray, "Spectroscopic Identification of a Novel Catalytic Reaction of Rubidium Ion with Atomic Hydrogen and the Hydride Ion Product", Int. J. Hydrogen Energy, in press.			

Examiner Signature	/Stephen Kalafut/	Date Considered	12/06/2007
--------------------	-------------------	-----------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449B/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet	<input checked="" type="checkbox"/> 42	of	<input checked="" type="checkbox"/> 42	Attorney Docket Number
-------	--	----	--	------------------------

**Complete if Known**

Application Number	09/362,693
Filing Date	07/29/1999
First Named Inventor	Mills
Group Art Unit	1754
Examiner Name	Langer

**OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		R. Mills, J. Dong, W. Good, P. Ray, J. He, B. Dhandapani, "Measurement of Energy Balance of Noble Gas-Hydrogen Discharge Plasmas Using Calvet Calorimetry", Int. J. Hydrogen Energy, in press.	
		R. L. Mills, A. Voigt, P. Ray, M. Nansteel, B. Dhandapani, "Measurement of Hydrogen Balmer Line Broadening and Thermal Power Balances of Noble Gas-Hydrogen Discharge Plasmas", Int. J. Hydrogen Energy, in press.	
		R. Mills, P. Ray, "Vibrational Spectral Emission of Fractional Principal Quantum Energy-Level Hydrogen Molecular Ion", Int. J. Hydrogen Energy, in press.	
		R. Mills, P. Ray, "Spectral Emission of Fractional Quantum Energy Levels of Atomic Hydrogen from a Helium-Hydrogen Plasma and the Implications for Dark Matter", Int. J. Hydrogen Energy, Vol. 27, No. 3, (2002) pp. 301-322.	
		R. Mills, P. Ray, "Spectroscopic Identification of a Novel Catalytic Reaction of Potassium and Atomic Hydrogen and the Hydride Ion Product", Int. J. Hydrogen Energy, Vol. 27, No. 2, (2002), pp. 183-192.	
		R. Mills, "BlackLight Power Technology-A New Clean Hydrogen Energy Source with the Potential for Direct Conversion to Electricity", Proceedings of the National Hydrogen Association, 12 th Annual U.S. Hydrogen Meeting and Exposition, Hydrogen: The Common Thread, The Washington Hilton and Towers, Washington DC, (March 6-8, 2001), pp. 671-697.	
		Keith Keefer, Ph.D., "Interim Report on BlackLight Power Technology: Its Apparent Scientific Basis, State of Development and Suitability for Commercialization by Liebert Corporation." (also cited on page 12)	
		R. Mills, "The Grand Unified Theory of Classical Quantum Mechanics," (2001), Distributed by Amazon.Com.	

Examiner Signature	/Stephen Kalafut/	Date Considered	12/06/2007
--------------------	-------------------	-----------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.